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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,220	09/24/2001	Akihiro Goto	Q65416	6650
7590 05/04/2005			EXAMINER	
Sughrue Mion Zinn			EVANS, GEOFFREY S	
Macpeak & Sea 2100 Pennsylva	s nia Avenue NW		ART UNIT PAPER NUMBER	
Washington, DC 20037-3202			1725	

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			(.)			
	Application No.	Applicant(s)				
	09/937,220	GOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Geoffrey S. Evans	1725				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	mely filed ys will be considered time the mailing date of this c ED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 04 N	lovember 2004.					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowa	nce except for formal matters, pr	osecution as to the	e merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-3 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) ☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority 	ts have been received. ts have been received in Applicat	ion No	Stage			
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail D 5) ☐ Notice of Informal I		O-152)			
2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom Apphoauon (F1)	 ,			
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DETAILED ACTION

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1 and 2 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1,3 of U.S. Patent No. 6,501,232. Although the conflicting claims are not identical, they are not patentably distinct from each other. Regarding claim 1 of the instant application, claim 1 of U.S. Patent No. 6,501,232 recites a control means that is the same as a control unit that sets first and second pulse widths with peak values (1<=k<=n), which includes the instant recitation in claim 1 of (2<=k<=n). Claim 1 of U.S. Patent No. 6,501,232 also discloses emission of the electrode material can be suppressed and controlling the predetermined values based on a predetermined processing condition (the predetermined melting condition of the hard coat). Regarding claim 2 of the instant application, claim 3 of U.S. Patent No. 6,501,232 discloses a method of electric discharge surface treatment for forming a hard coat on a surface of a workpiece, the method comprising the steps of generating (dividing) a pulse current having a first and second pulse widths with first

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and second peak values, and a n-th pulse width with an n-th peak value (1<=k<=n) (which includes the instant recitation in claim 2 of (2<=k<=n)) and controlling the emission of the electrode material based on a predetermined processing condition (the predetermined melting condition of the hard coat).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Magara et al. in U.S. Patent No. 5,434,380. Magara et al. in U.S. Patent No. 5,434,380 discloses a control member (see element 21 in figure 9 for controlling the electric discharge unit (element 10); see column 7, lines 52-56) for supplying pulses to the gap (see figure 6) with a first pulse width section and first peak value section and also a second pulse width section and a second peak value section (see figure 16(b)) that meets the equation (2<=k<=n) by satisfying the equation 2=k=n. Since during the first pulse width section less emission of the electrode occurs, inherently this can be considered to suppress the emission of electrode material. It is also inherent in an electric discharge process that a diameter of an electric discharge arc column is extended.
- 5. Applicant's arguments filed 4 November 2004 have been fully considered but they are not persuasive. The control of the expansion of the discharge channel is no more controlled by Applicant's invention than that described in the Magara et al.

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reference, since neither has a feedback system. Regarding the limitation that "the a quantity of supply of hard coat material by the emission of electrode material is a predetermined value determined according to a predetermined processing condition", Magara et al. by using predetermined pulse conditions (i.e. the pulse width and peak value), the amount of emission of the electrode onto the workpiece is controlled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571)-272-1171. The fax phone number for the organization where this application or proceeding is assigned is (703)-872-9306.

GSE

Geofffey S. Evans Primary Examiner Group 1700